Training Center Management

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01
Introduction

Nowadays, People are going for websites to find information. There is no doubt about that. Although there are a variety of applications developed to assist in different aspects of our daily lives, many applications have been specifically developed to change the way the students, trainers, trainees manager and directors thinks, to facilitate the management of their work and studies.

02
Project context

PROBLEMATIC

The management of a training organization which required rigor and precision due to its multiple facets has become even more demanding with the latest reforms and with the Data dock. From now on, the organization must gain in quality and prove it. This is why from the start it is better to be well equipped.

Solution

So we think to create an application to facilitate the management of this process.

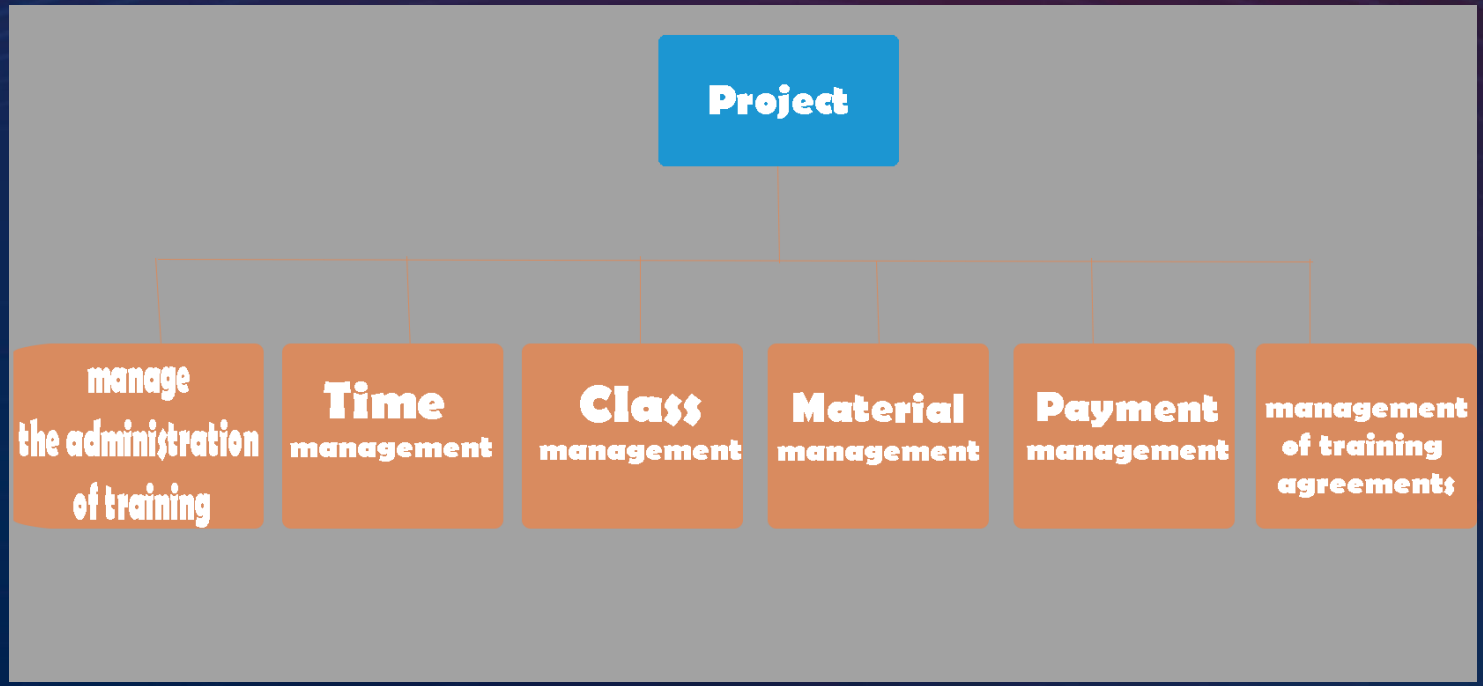
03
Analyze

Project management by Scrum

As we have already mentioned, we will choose the agile method of Scrum, because this method offers the possibility of rapid development and allows reusability of features separately from the platform.

Project breakdown

Structuring a project consists in dividing the project into different lots of activities in order to have sub-parts whose complexity is more easily manageable.Here is the structure of our project:



Backlog Product : The following table describes the Product Backlog and discusses the “User Stories” :

ID	FONCTIONALITY	ID	USER STORIES	PRIORITY
1	Management the administration of training	1.1	As an administrator I have to manage my database.	High
		1.2	As an administrator I have to restore my data every year.	High
		1.3	As an administrator I have to organize the equipment.	Medium
		1.4	As an administrator I must verify the annual income.	Very High
		1.5	As an administrator I must maintain the connection with sponsors.	High

2	Time Management	2.1	As an administrator I want to consult a specific program.	High
		2.2	As an administrator I want to display the list of programs.	High
		2.3	As a trainer I can choose my training lesson's time.	High
		2.4	As a student I can choose my lesson's time.	High
		2.5	As a consultant I should organize all the time’s table.	
		2.6	As a consultant I can change some schedules.	

3	Class Management	3.1	As an administrator I add more trainers.	High
		3.2	As an administrator I remove some trainers.	High
		3.3	As an administrator I add more trainees.	High
		3.4	As an administrator I remove some trainees.	High
		3.5	As a student I can choose which class should I get in.	High
		3.6	As a consultant I should organize all the classes.	Very High

4	Material Management	4.1	As an administrator I buy new materials.	High
		4.2	As an administrator I sell old materials.	Low
		4.3	As a trainer I must have all the necessary equipment.	High
5	Payment Management	5.1	As a consultant I should consult payments.	High
		5.2	As an administrator I can add the training’s price.	High
		5.3	As a consultant I should pay the assurances.	High
		5.4	As an administrator I should pay the trainees.	High

6	Management of training agreements	6.1	As an administrator I must receive the invoice once the session is over.	Low
		6.2	As a trainer I should organize all these tests.	High
		6.3	As a trainer I should announce the exam 2 weeks before testing to all the center.	Very High
		6.4	As a student I can participate in any test I want.	High
		6.5	As a consultant I should organize these test’s time & placement.	High

Structuring in sprints and planning

Know the process

Sprint 1

Authentication and Situation Analysis
(first week : 18 February)

Sprint 4

The last steps to finish the app
(24 & 31 March)

Sprint 2

Administrator & Consultant part
(Second week :24 February & 3 March)

Sprint 3

Trainer & student part
(10 & 17 March)

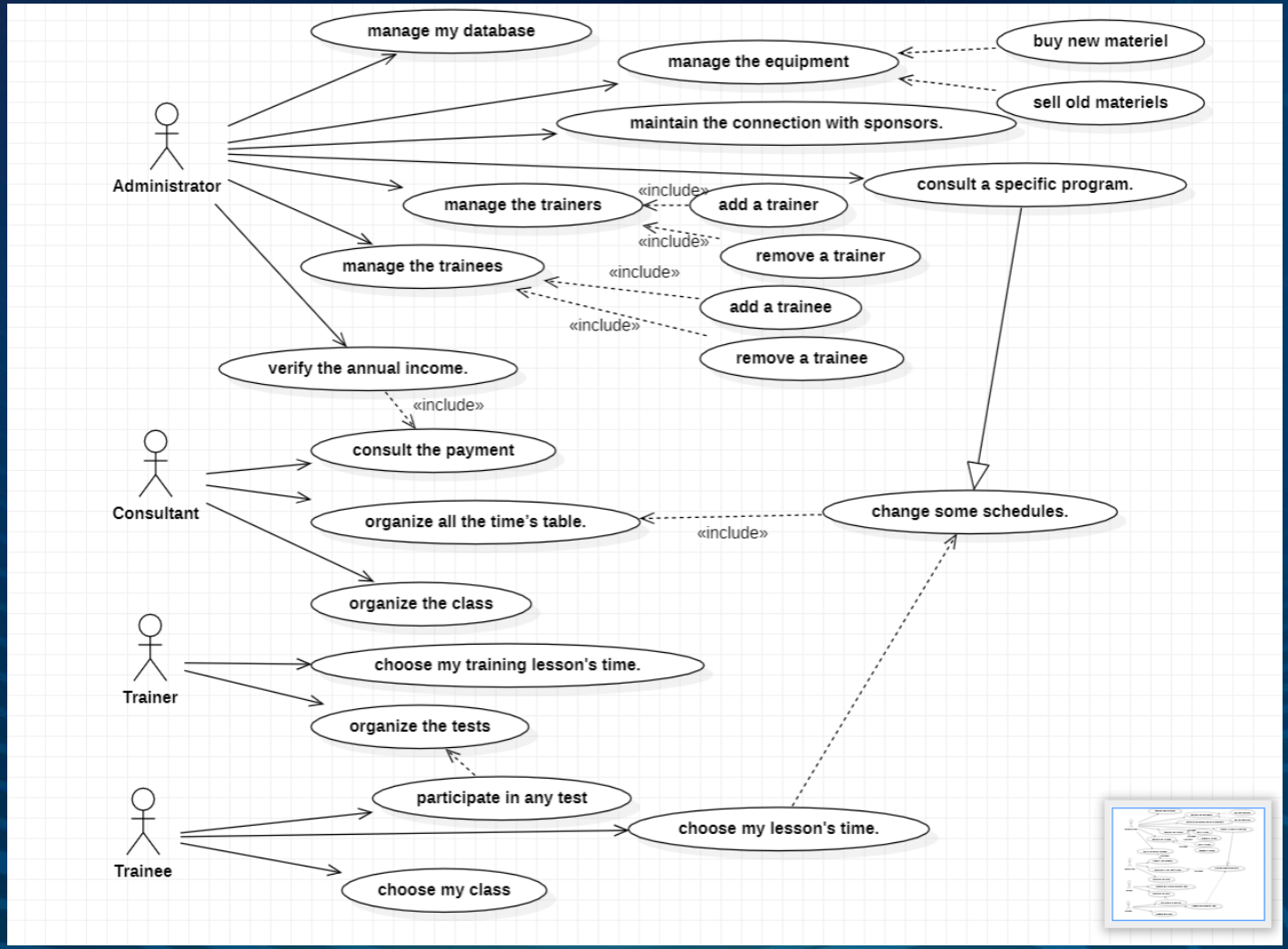
04
Diagrams

Use Case Diagram

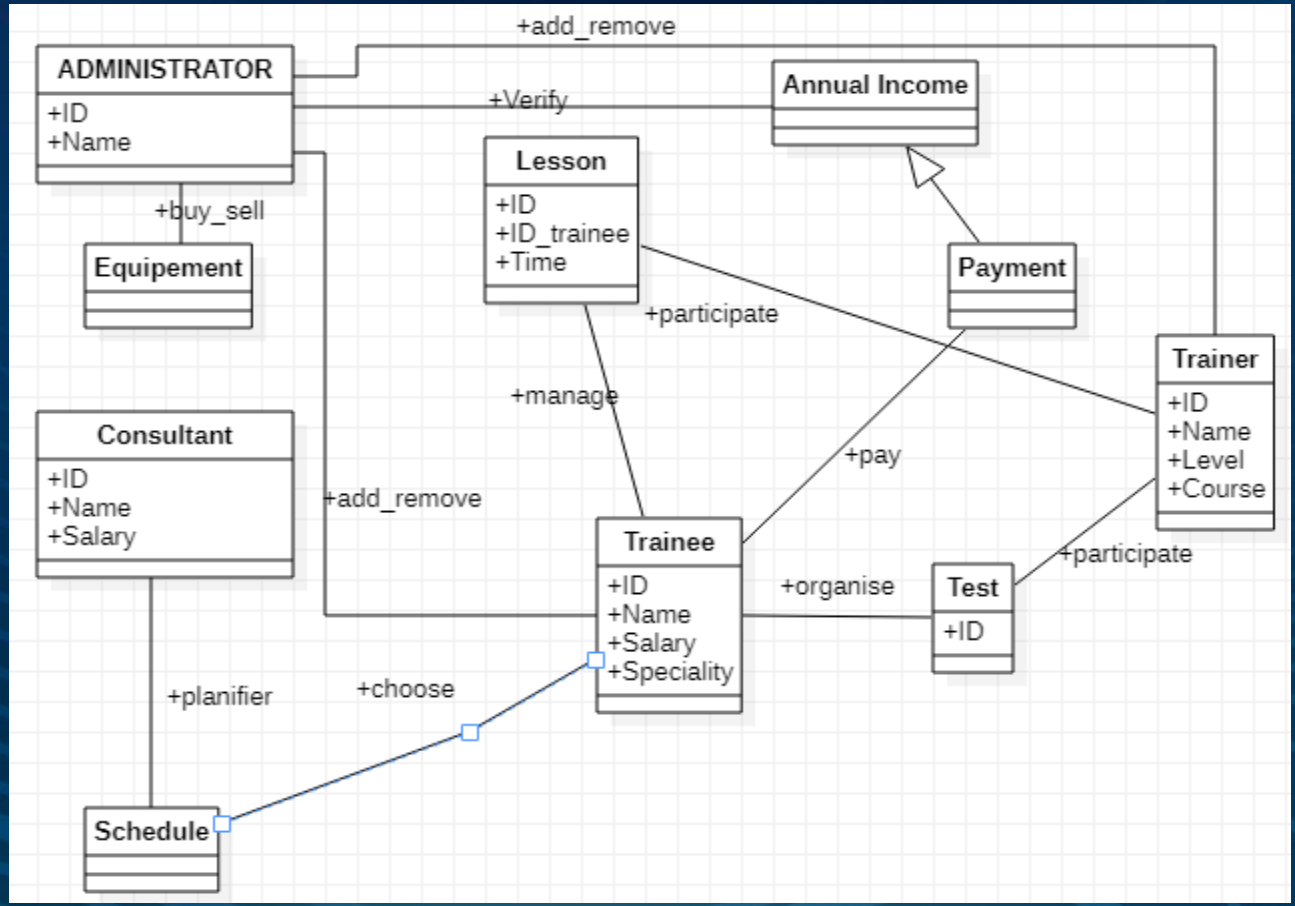
Identification of actors

An actor is a person or software that interacts with the system in order to perform one or more functions concerning the use cases.
In this module, we will use only 4 actors :

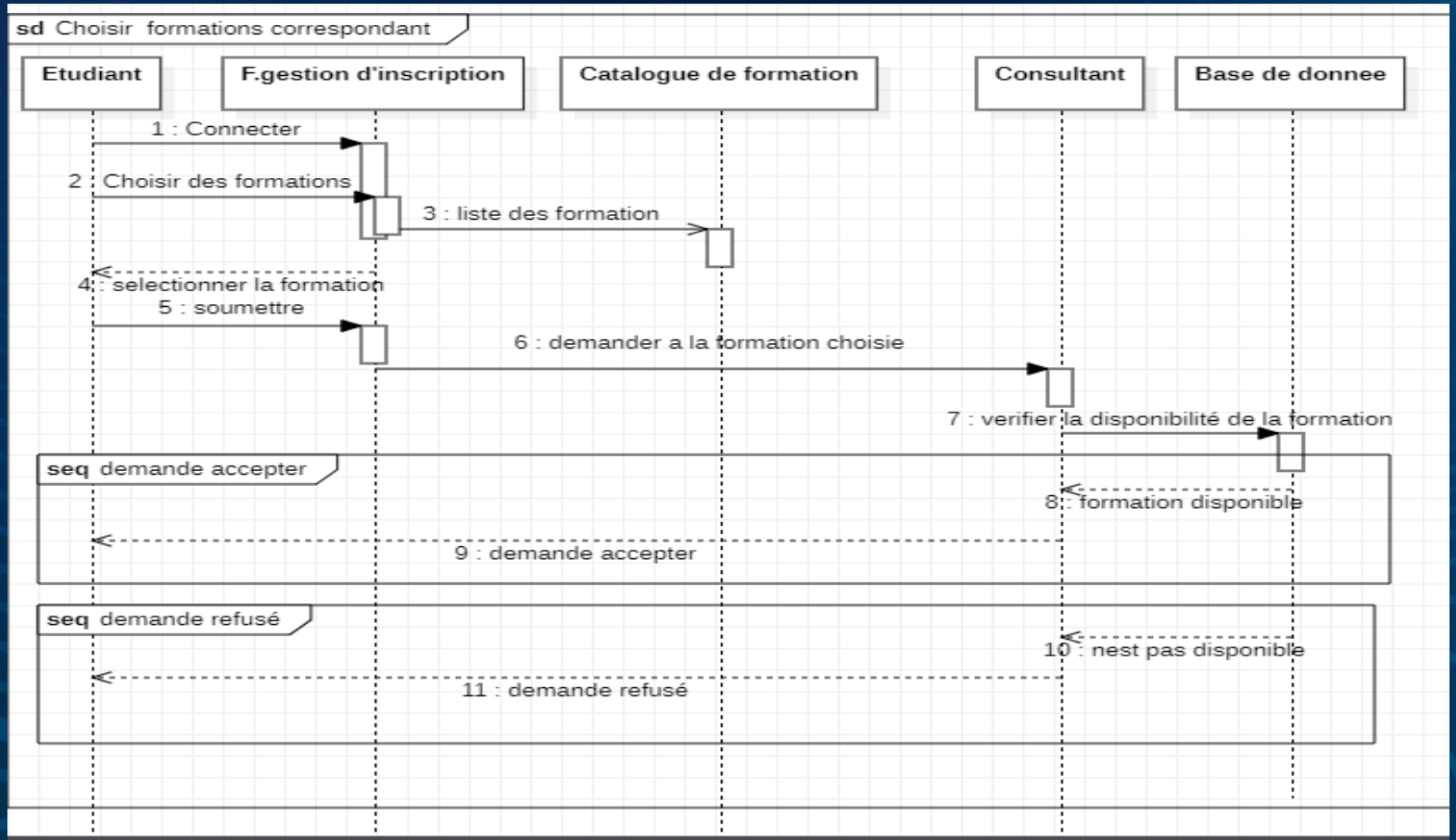
1) the administrator
2) the consultant
3) the trainer
4) the student


manage my database
manage the equipment
buy new materiel
sell old materiels
maintain the connection with sponsors.
consult a specific program.
Administrator
manage the trainers
«include»
add a trainer
«include»
remove a trainer
manage the trainees
«include»
add a trainee
«include»
remove a trainee
verify the annual income.
«include»
consult the payment
Consultant
organize all the time's table.
change some schedules.
«include»
organize the class
Trainer
choose my training lesson's time.
organize the tests
participate in any test
choose my lesson's time.
Trainee
choose my class

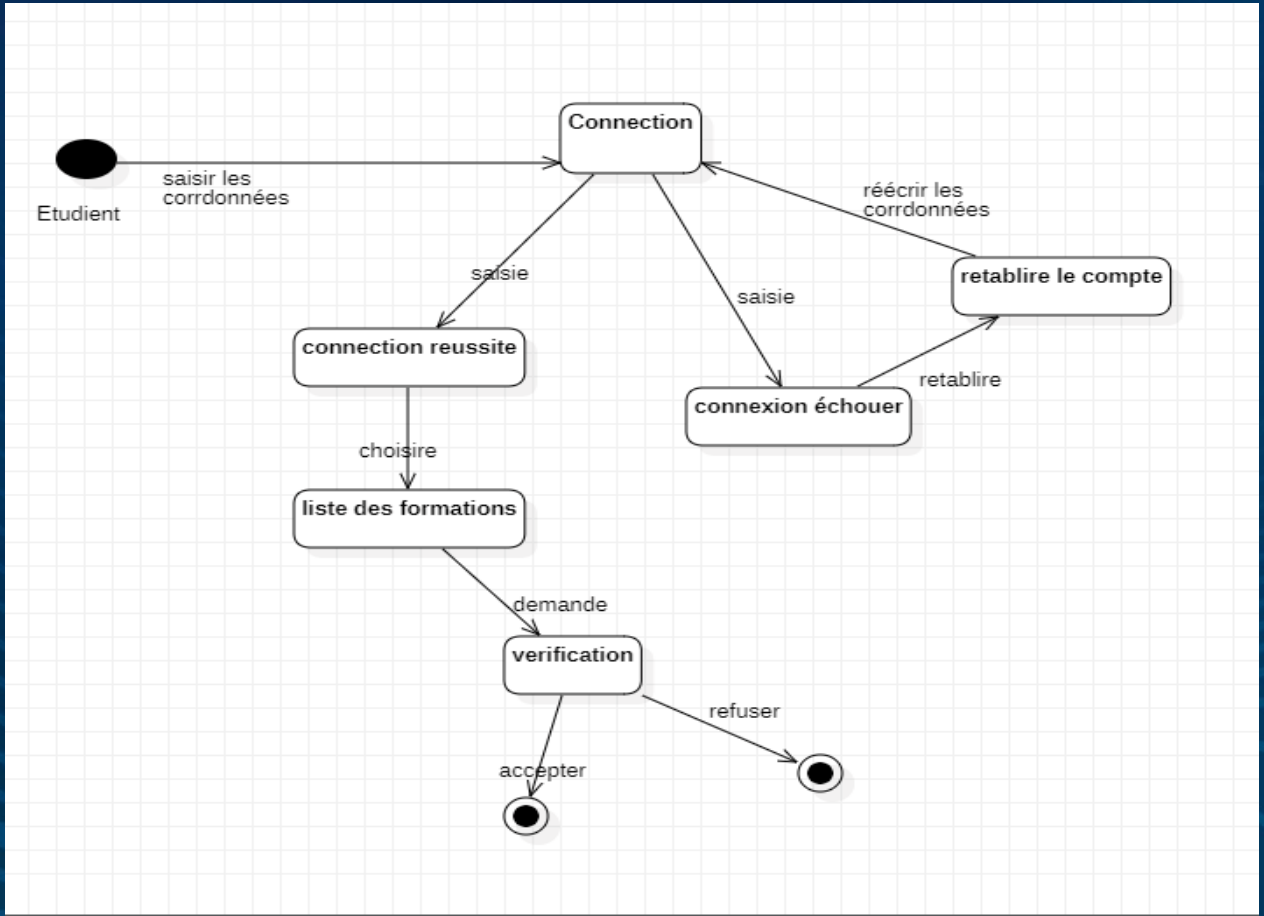
Class Diagram

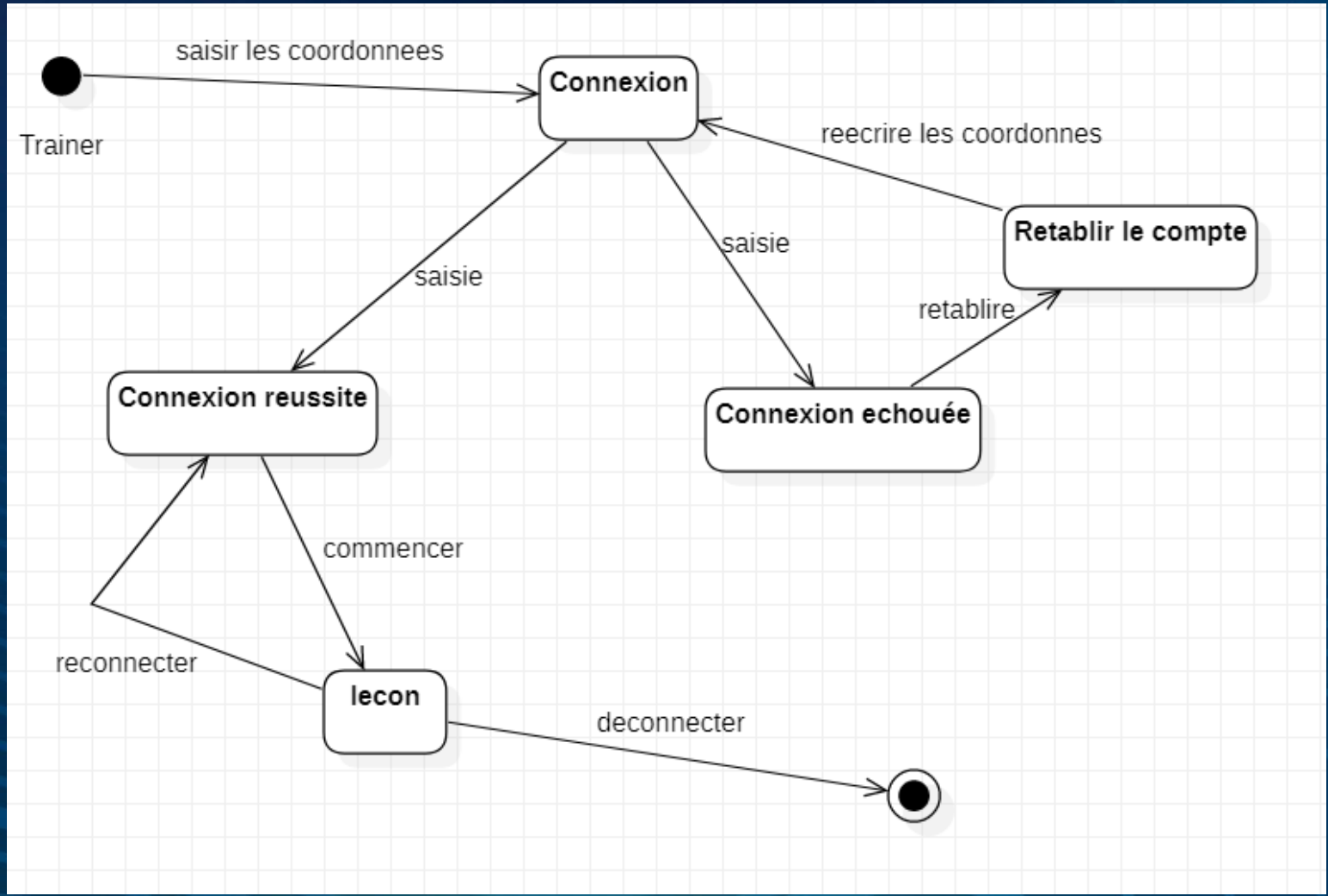


Sequence Diagram



Activity Diagram




saisir les coordonnees
Trainer
Connexion
reecrire les coordonnes
Retablir le compte
saisie
saisie
retablire
Connexion reussite
Connexion echouée
commencer
reconnecter
lecon
deconnecter

05
Our Website

Backend

We use **Oracle** to manage our database :
First of all we create our users then all the roles & the necessary privileges.
Finally, we set our tablespaces.

Users

The first actor is the administrator & he is the responsible of the management of the database so he present the SYS in oracle(SQL PLUS).

The second actor is **the consultant**

The Consultant

```
CREATE USER Consultant IDENTIFIED BY "Mypass1“
DEFAULT TABLESPACE “Consultant" PASSWORD EXPIRE ;
-- QUOTAS
ALTER USER “Consultant" QUOTA UNLIMITED ON “Trainer";
ALTER USER “Consultant" QUOTA UNLIMITED ON “Student";
ALTER USER “Consultant" QUOTA UNLIMITED ON “Course";

-- SYSTEM PRIVILEGES
GRANT ALTER USER TO "Consultant" ;
GRANT ALTER PROFILE TO "Consultant" ;
GRANT CREATE USER TO "Consultant" ;
GRANT CREATE PROFILE TO "Consultant" ;
GRANT DROP USER TO "Consultant" ;
GRANT DROP PROFILE TO "Consultant" ;
GRANT CREATE TABLE TO "Consultant" ;
```

The third actor is **the trainer**

The Trainer

```
CREATE USER Trainer IDENTIFIED BY
"Mypass2";
-- SYSTEM PRIVILEGES
GRANT ALTER USER TO “Trainer" ;
GRANT ALTER PROFILE TO “Trainer" ;
GRANT CREATE TABLE TO “Trainer" ;
```

The fourth actor is **the student**

The Student

```
CREATE USER Student IDENTIFIED BY
"Mypass3";
-- SYSTEM PRIVILEGES
GRANT ALTER USER TO “Student" ;
GRANT ALTER PROFILE TO “Student" ;
GRANT CREATE TABLE TO “Student" ;
```

Roles

“ajouter_etd”

```
CREATE ROLE "ajouter_etd" IDENTIFIED BY "Mypass4";
-- SYSTEM PRIVILEGES
GRANT UPDATE ANY TABLE TO "ajouter_etd" WITH ADMIN OPTION;
GRANT ALTER ANY TABLE TO "ajouter_etd" WITH ADMIN OPTION;
GRANT INSERT ANY TABLE TO "ajouter_etd" WITH ADMIN OPTION;
GRANT SELECT ANY TABLE TO "ajouter_etd" WITH ADMIN OPTION;
GRANT CREATE TABLE TO "ajouter_etd" WITH ADMIN OPTION;
GRANT CREATE ANY TABLE TO "ajouter_etd" WITH ADMIN OPTION;
GRANT DROP ANY TABLE TO "ajouter_etd" WITH ADMIN OPTION;
grant ALTER, DELETE, INSERT, UPDATE, SELECT on
"SYSTEM".“Consultant" to "ajouter_etd" ;
```

“ajouter_trainer”

```
CREATE ROLE "ajouter_trainer" IDENTIFIED BY "Mypass5";
-- SYSTEM PRIVILEGES
GRANT UPDATE ANY TABLE TO "ajouter_trainer" WITH ADMIN OPTION;
GRANT ALTER ANY TABLE TO "ajouter_trainer" WITH ADMIN OPTION;
GRANT INSERT ANY TABLE TO "ajouter_trainer" WITH ADMIN OPTION;
GRANT SELECT ANY TABLE TO "ajouter_trainer" WITH ADMIN OPTION;
GRANT CREATE TABLE TO "ajouter_trainer" WITH ADMIN OPTION;
GRANT CREATE ANY TABLE TO "ajouter_trainer" WITH ADMIN OPTION;
GRANT DROP ANY TABLE TO "ajouter_trainer" WITH ADMIN OPTION;
grant ALTER, DELETE, INSERT, UPDATE, SELECT on
"SYSTEM".“Consultant" to "ajouter_trainer" ;
```

“ajouter_cours”

```
CREATE ROLE “ajouter_cours" IDENTIFIED BY "Mypass6";
-- SYSTEM PRIVILEGES
GRANT UPDATE ANY TABLE TO “ajouter_cours" WITH ADMIN
OPTION;
GRANT ALTER ANY TABLE TO “ajouter_cours" WITH ADMIN OPTION;
GRANT INSERT ANY TABLE TO “ajouter_cours" WITH ADMIN OPTION;
GRANT SELECT ANY TABLE TO “ajouter_cours" WITH ADMIN OPTION;
GRANT CREATE TABLE TO “ajouter_cours" WITH ADMIN OPTION;
GRANT CREATE ANY TABLE TO “ajouter_cours" ;
GRANT DROP ANY TABLE TO “ajouter_cours" WITH ADMIN OPTION;

grant ALTER, DELETE, INSERT, UPDATE, SELECT on "SYSTEM"."Trainer" to
“ajouter_cours";
```

“gérer_nbr”

```
CREATE ROLE "gérer_nbr" IDENTIFIED BY "Mypass1";
-- SYSTEM PRIVILEGES
GRANT UPDATE ANY TABLE TO "gérer_nbr" WITH ADMIN OPTION;
GRANT ALTER ANY TABLE TO "gérer_nbr" WITH ADMIN OPTION;
GRANT SELECT ANY TABLE TO "gérer_nbr" WITH ADMIN OPTION;
GRANT CREATE TABLE TO "gérer_nbr" WITH ADMIN OPTION;
GRANT CREATE ANY TABLE TO "gérer_nbr" WITH ADMIN OPTION;
GRANT DROP ANY TABLE TO "gérer_nbr" WITH ADMIN OPTION;

grant ALTER, DELETE, INSERT, UPDATE, SELECT on "SYSTEM"."Consultant"
to "gérer_nbr" ;
```

“gérer_tps”

```
CREATE ROLE "gérer_tps" IDENTIFIED BY "Mypass1";
-- SYSTEM PRIVILEGES
GRANT UPDATE ANY TABLE TO "gérer_tps" WITH ADMIN OPTION;
GRANT ALTER ANY TABLE TO "gérer_tps” WITH ADMIN OPTION;
GRANT SELECT ANY TABLE TO "gérer_tps" WITH ADMIN OPTION;
GRANT CREATE TABLE TO "gérer_tps" WITH ADMIN OPTION;
GRANT CREATE ANY TABLE TO "gérer_tps" WITH ADMIN OPTION;
GRANT DROP ANY TABLE TO "gérer_tps" WITH ADMIN OPTION;

grant ALTER, DELETE, INSERT, UPDATE, SELECT on "SYSTEM"."Consultant"
to "gérer_tps" ;
```

Priviliges

Priviliges

```
grant ALTER, DELETE, INSERT, UPDATE, SELECT on "SYSTEM".“Schedule_tr"
to “Trainer“
grant ALTER, DELETE, INSERT, UPDATE, SELECT on
"SYSTEM".“Schedule_etd" to “Student“
grant SELECT on "SYSTEM".“Test" to “Trainer";
grant SELECT on "SYSTEM".“Test" to “Student";
grant SELECT on "SYSTEM".“Test" to “SYS";
grant SELECT on "SYSTEM".“Test" to “Consultant";
```

Tablespaces

Consultant

```
CREATE TABLESPACE Consultant
DATAFILE 'C:\Users\achra\Desktop\oradata\XE\PAT.DBF' SIZE 800K;
```

Trainer

```
CREATE TABLESPACE Trainer
DATAFILE 'C:\Users\achra\Desktop\oradata\XE\PAT.DBF' SIZE 600K;
```

Student

```
CREATE TABLESPACE Student
DATAFILE 'C:\Users\achra\Desktop\oradata\XE\PAT.DBF' SIZE 400K;
```

Test

```
CREATE TABLESPACE Test
DATAFILE 'C:\Users\achra\Desktop\oradata\XE\PAT.DBF' SIZE 200K;
```

Coyrse

```
CREATE TABLESPACE Course
DATAFILE 'C:\Users\achra\Desktop\oradata\XE\PAT.DBF' SIZE 200K;
```

Tables

Consultant

```
CREATE TABLE Consultant
(
 CIN NUMBER(8) NOT NULL,
 CODE NUMBER(4) NOT NULL,
 NOM VARCHAR2(20 BYTE) NOT NULL,
 PRENOM VARCHAR2(20 BYTE) NOT NULL,
 ADRESSE VARCHAR2(20 BYTE) NOT NULL
)
TABLESPACE Consultant ;
```

Trainer

```
CREATE TABLE Trainer
(
 CIN NUMBER(8) NOT NULL,
 CODE NUMBER(4) NOT NULL,
 NOM VARCHAR2(20 BYTE) NOT NULL,
 PRENOM VARCHAR2(20 BYTE) NOT NULL,
 ADRESSE VARCHAR2(20 BYTE) NOT NULL,
 LEVEL VARCHAR2(20 BYTE) NOT NULL,
 COURS Course NOTNULL
)
 TABLESPACE Trainer ;
```

Student

```
CREATE TABLE Student
(
 CIN NUMBER(8) NOT NULL,
 CODE NUMBER(4) NOT NULL,
 NOM VARCHAR2(20 BYTE) NOT NULL,
 PRENOM VARCHAR2(20 BYTE) NOT NULL,
 ADRESSE VARCHAR2(20 BYTE) NOT NULL,
 SECTION VARCHAR2(20 BYTE) NOT NULL,
 COURS Course NOTNULL
)
 TABLESPACE Trainer ;
```

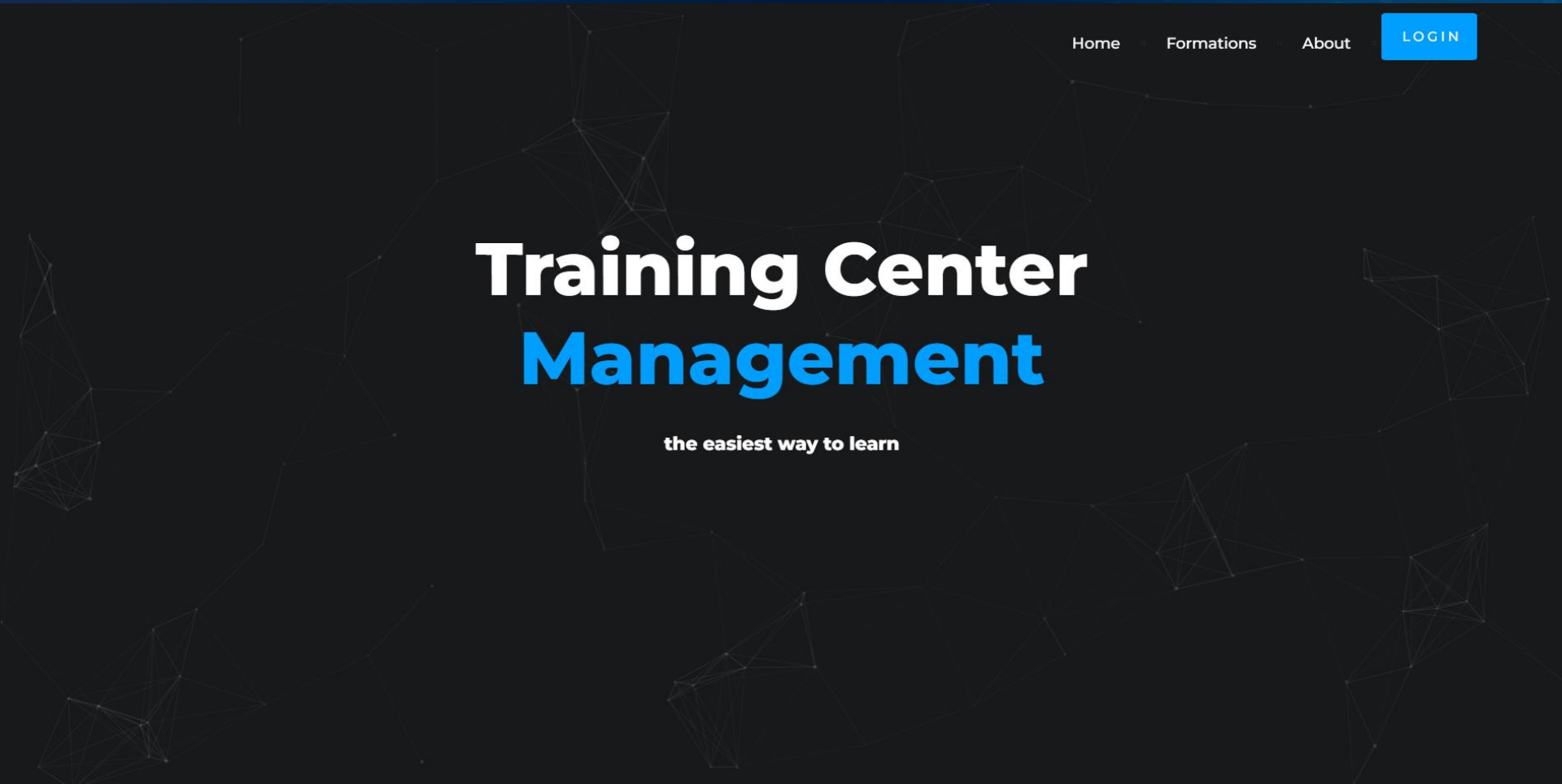
Test

```
CREATE TABLE Test
(
 CODE NUMBER(4) NOT NULL,
 DATEDEBUT DATE,
 DATEFIN DATE
)
 LOGGING TABLESPACE Trainer
STORAGE ( INITIAL 65536 MINEXTENTS 1 MAXEXTENTS UNLIMITED
BUFFER_POOL DEFAULT )
 NOPARALLEL;
```

Course

```
CREATE TABLE Test
(
 CODE NUMBER(4) NOT NULL,
 DATEDEBUT DATE,
 DATEFIN DATE,
 CONSTRAINT TRAINER_PK PRIMARY KEY ( CIN )
)
 LOGGING TABLESPACE Trainer
 STORAGE ( INITIAL 65536 MINEXTENTS 1 MAXEXTENTS UNLIMITED
BUFFER_POOL DEFAULT )
 NOPARALLEL;
```

The homepage



Welcome to our Center

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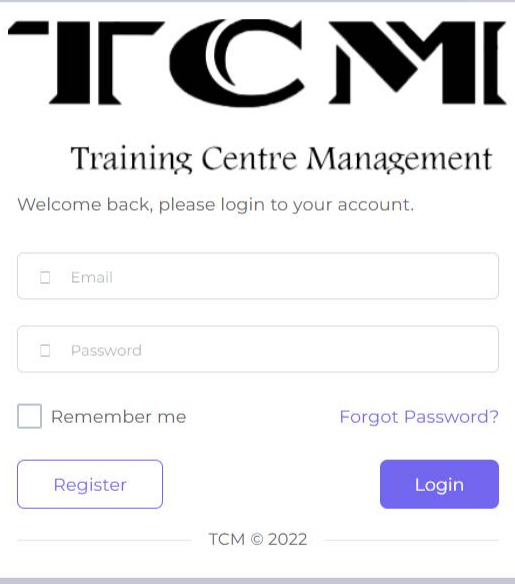
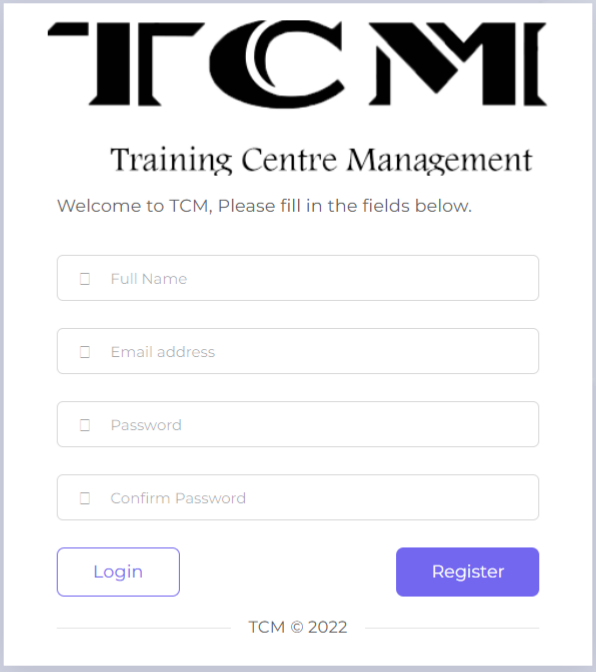
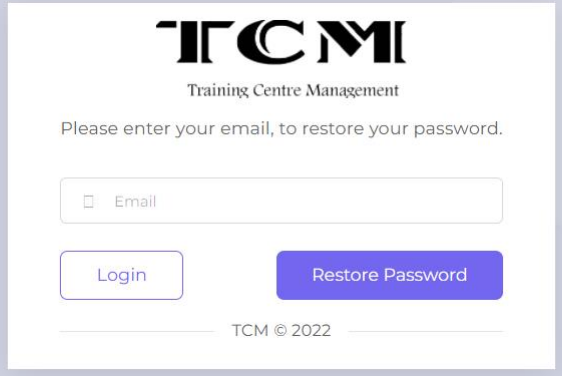
logIn


TCM
Training Centre Management
Welcome back, please login to your account.
Email
Password
Remember me
Forgot Password?
Register
Login
TCM © 2022

Register


TCM
Training Centre Management
Welcome to TCM, Please fill in the fields below.
Full Name
Email address
Password
Confirm Password
Login
Register
TCM © 2022

Forget password



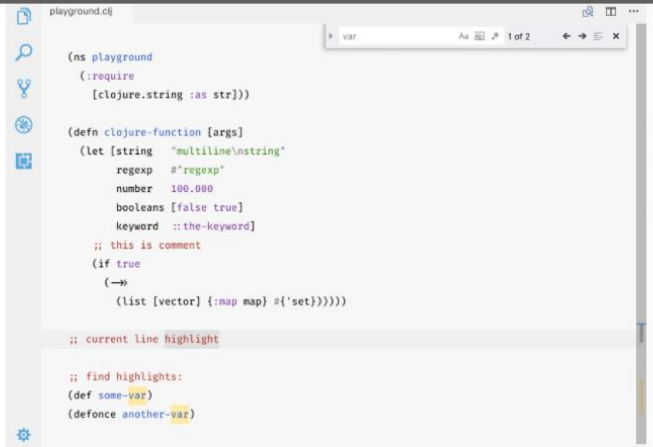
The formation interface

WE OFFER ALL THIS FORMATIONS ALL THIS FORMATIONS

Home Formations About LOGIN

Angular is a toolset for building the framework most suited to your application development. It is fully extensible and works well with other libraries.

Go for this course



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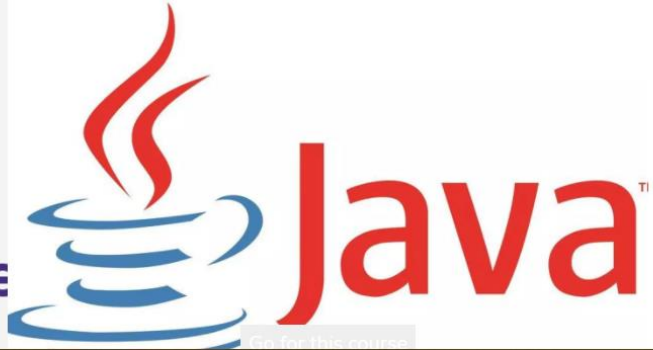
Unified Modeling Language

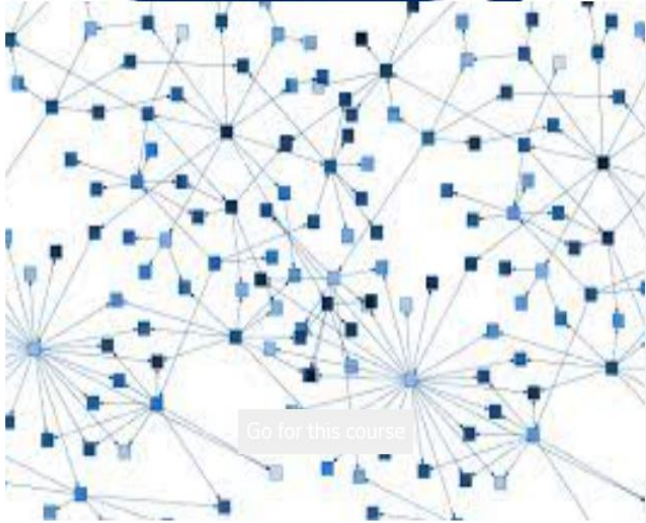


Go for this course

SQL is a domain-specific language used in programming and designed for managing data held in a relational database management system, or for stream processing in a relational data stream management system.

Go for this course

Go for this course



Go for this course

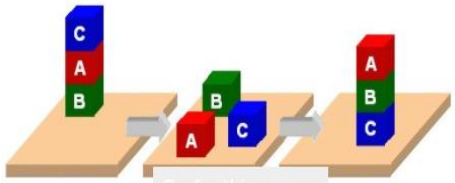
Go for this course

Google Cloud

BIG DATA

Go for this course

PDDL



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06
About Us

Ghalba Fawz El Houda

Arous Achraf

Jmal Ahmed

Thanks for your attention